

DESCRIPTION

2SC3928 is a super mini package resin sealed silicon NPN epitaxial transistor, It is designed for low frequency voltage application.

FEATURE

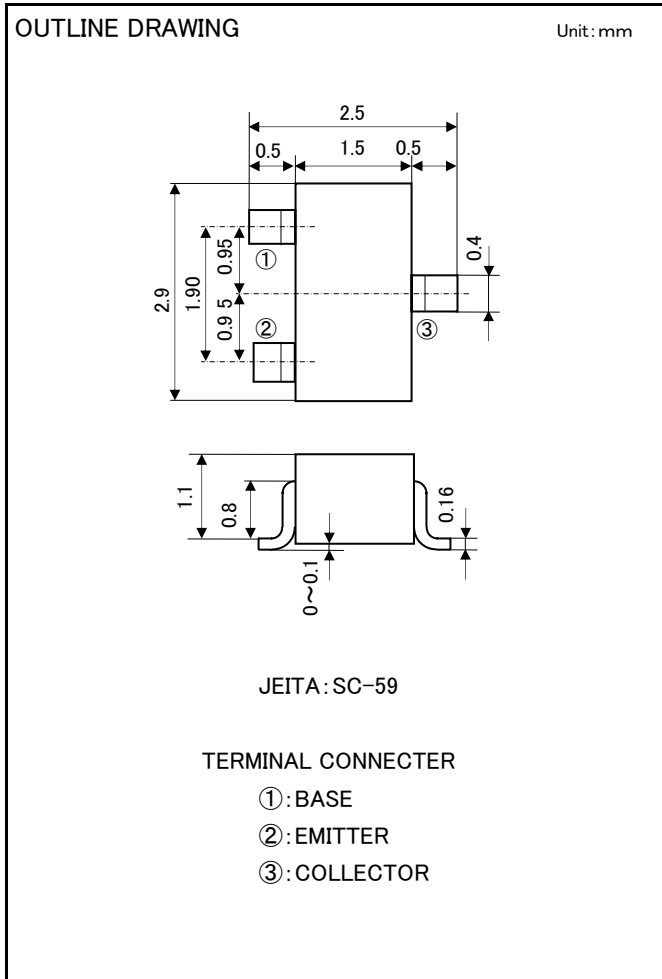
- Small collector to emitter saturation voltage.
VCE(sat)=0.3V max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

For Hybrid IC,small type machine low frequency voltage Amplify application.

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector to Base voltage	50	V
V _{CEO}	Collector to Emitter voltage	50	V
V _{EBO}	Emitter to Base voltage	6	V
I _O	Collector current	100	mA
P _c	Collector dissipation	200	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	V(BR) _{CEO}	I _C =100μA, R _{BE} =∞	50	-	-	V
Collector cut off current	ICBO	V _{CB} =50V, I _E =0mA	-	-	0.5	μA
Emitter cut off current	IEBO	V _{EB} =4V, I _C =0mA	-	-	0.5	μA
DC forward current gain	hFE	V _{CE} =6V, I _C =1mA	※1			
DC forward current gain	hFE	V _{CE} =6V, I _C =0.1mA	70	-	-	
C to E Saturation Voltage	VCE(sat)	I _C =30mA, I _B =1.5mA	-	-	0.3	V
Gain bandwidth product	fT	V _{CE} =6V, I _E =-10mA	-	200	-	MHz
Collector output capacitance	Cob	V _{CB} =6V, I _E =0mA, f=1MHz	-	2.0	-	pF

※) It shows hFE classification in below table.

Item	Q	R	S	T
hFE Item	120~270	180~390	270~560	390~820



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